Atty. Dkt. No. P65588US0

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Makoto HIRATA et al.

Serial No.: 09/581086

Art Unit: Unknown

Filed: June 9, 2000

Examiner: Unknown

For:

PROCESS FOR PREPARING BUTANETRIOL DERIVATIVE

### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents Washington, DC 20231

Sir:

As a means of complying with the duty of disclosure, submitted herewith is Form PTO-1449, which cites relevant references, available copies of which are provided, hereby, as appropriate under the rules. Relevance of the cited references is explained in the International Search Report (copy attached) or in the instant specification.

No fee is required, as the instant IDS is filed before the mailing date of the initial action on the merits.

Respectfully submitted,

By:

William E. Player Reg. No. 31,409

Jacobson, Price, Holman & Stern, PLLC 400 Seventh Street, N.W. Washington, DC 20004 (202) 638-6666 Atty. Dkt. No.: P5588USO September 19, 2000 WEP:jam

R:\HOME\EMENNILL\2000\JULY\P65588-3.WPD

Sheet <u>1</u> of	_1_							
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO.: P65588US0		SERIAL NO.: 09/581086			
LIST OF REFE	T AND TRADEMARK OFF RENCES CITED BY APPL Several sheets if necessal	APPLICANT: Makoto HIRATA et al.						
Date Submitted to PTO: September 18, 2000			FILING DATE: June 9, 2000			GROUP: Unknow		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS		SUBCLASS	FILING DATE IF APPROPRIATE	
	5,541,347	7-30-96	FAUL et al.	-				
	5,710,145	1-20-98	Engel et al.					
:			·.					
				<u>.</u>				
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS		SUBCLASS	TRANSLATION YES NO	
	JP09-047296	2-18-97	JAPAN (abstract)				×	
	JP04-149151		JAPAN (abstract)				×	
	JP07-215977	8-15-95	JAPAN	_				
· ;	JP08-512030	12-17-96	JAPAN				·	
	EP 657411	6-14-95	EUROPE					
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
	CHARKRABORTY, BOC-Ahda methyle	CHARKRABORTY, Tushar K.; HUSSAIN, Azhar K.; JOSHI, Subodh P., "Stereocontrolled total synthesis of 9(R)-N-BOC-Ahda methylester", Chem. Lett. 1992, No. 12, p. 2385-2388						
							•	
							<del></del>	
İ								
EXAMINER			DATE CON	SIDERED				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

### INTERNATIONAL SEARCH REPORT

International application No. PCT/JP99/00355

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl<sup>6</sup> C07C43/178, C07C41/16, C07C41/26, C07C309/65, C07C303/28,
C07F7/18, C07B53/00 // C07M7:00

According to International Patent Classification (IPC) or to both national classification and IPC

### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl<sup>6</sup> C07C43/178, C07C41/16, C07C41/26, C07C309/65, C07C303/28,
C07F7/18, C07B53/00 // C07M7:00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS (STN), REGISTRY (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP, 7-215977, A (Eli Lilly and Co.), 15 August, 1995 (15. 08. 95) & EP, 657458, A1 & EP, 735038, A1	1, 22-24 2-21
X A	EP, 657411, A1 (ELI LILLY AND COMPANY), 14 June, 1995 (14. 06. 95) & JP, 7-238044, A	1, 22-24 2-21
X A	US, 5710145, A (Eli Lilly and Company), 20 January, 1998 (20. 01. 98) (Family: none)	1, 22-24 2-21
A	JP, 8-512030, A (Merrell Pharmaceuticals Inc.), 17 December, 1996 (17. 12. 96) & EP, 705264, A1 & WO, 95/00515, A1	5
<b>x</b>	CHARKRABORTY, Tushar K.; HUSSAIN, Azhar K.; JOSHI, Subodh P., "Stereocontrolled total synthesis of 9(R)-N-BOC-Ahda methylester", Chem. Lett. 1992, No. 12, p,2385-2388	22

Further documents are listed in the continuation of B	ox C. See patent family annex.
<ul> <li>Special categories of cited documents:         <ul> <li>document defining the general state of the art which is not considered to be of particular relevance</li> <li>earlier document but published on or after the international filing document which may throw doubts on priority claim(s) or white cited to establish the publication date of another citation or other special reason (as specified)</li> <li>document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but late the priority date claimed</li> </ul> </li> </ul>	ch is considered novel or cannot be considered to involve an inventive step er when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination
Date of the actual completion of the international search 23 April, 1999 (23. 04. 99)	Date of mailing of the international search report 11 May, 1999 (11. 05. 99)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

#### Application/Control No. Applicant(s)/Patent Under Reexamination 09/581,086 HIRATA ET AL. Notice of References Cited Examiner Art Unit Page 1 of 1 1621 Rosalynd Keys **U.S. PATENT DOCUMENTS** Document Number Date Classification Name Country Code-Number-Kind Code MM-YYYY US-5665877 09-1997 Faul et al. 540/469 Α В US-6015807 01-2000 Engel et al. 514/183 С US-US-D Ε US-US-F G US-US-US-USĸ US-US-US-М FOREIGN PATENT DOCUMENTS Document Number Date Country Name Classification Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R s **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) Faul et al., Macrocyclic Bisindolylmaleimides: Synthesis by Inter- and Intramolecular Alkylation, J. Org. Chem., March 1998, U American Chemical Society, Vol. 63, No. 6, pages 1961-1973.

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

K. Verp 7/17/02 Part of Paper No. 8

**Notice of References Cited** 

W